

ELDER BILL BETTIS, from Oklahoma, puts the finishing touches on a special vacuum caner the Boyles Bros. Drilling Company of Salt Lake City, built from an idea they got om Provo City's street cleaning vacuum. It will be used in the four-mile Strawberry quaduct tunnel now under construction. Bill Marrs, tunnel superintendent swings the om far to the side. (Herald staff photo by Jerry Young)

Provo's Gutter Cleaner Inspires Device to Speed Up Construction 35 Aug 1969 By JERRY YOUNG Lie in the huge electric cable mental car so it will dump the

By JERRY YOUNG
That great green monster st Provoans take for granted it sucks away leaves and oris from city gutters has pired a new device which the yles Bros. Drilling Company is just started using to contuct the Strawberry Aqueduct. The same company is using a giant mechanical mole to be through the sandstone, all or conslomerate rock

re through the sandstone, ale or conglomerate rock by've found as they've drilled lighly three of the four mile e. Every 500 feet they stop to an up, set in the steel rein-cing and pour the sub-invert, floor.

Hand Shoveling

The cleaning detail is by far most tedious. Three, somenes four shifts of 19 men have get in and shovel out the ack left by the mole. The mpany knew it needed some-

ng better. ject can pe

the car cost the Boyles complete an additional 10 tons of cars and muck. Near the rear the car, on a platform bethe car, on a platform bethe debris box, are the by another company to build the same thing.

The car cost the Boyles complete complete complete savings over the \$75,000, they were quoted by another company to build the same thing.

The only thing they have to do now is modify the experi-

anything about electricity, about four times what a regular home would use if it was wired for 220 for electric stoves or heating); or about 8 times the amount used by a house wired for 110 (for general lighting, television,

The two giant fans turn at a speed of 3,600 RPM's and because they run inside a compartment that gets smaller and smaller, there is not only movement of air, but compression as

Sucks Anything That means that the boom mechanism on the front of the car, with the attached hose can suck up anything that gets close to it, so long as the object can pass through the eightingh hose. In a test attaids the so when it became known that over was using a suction detected it, and turned the matover to their machine designation car to meet a little getting used to," was a little getting used to," was the remark the operator made as he shook his head, not because by one of the electric wered trains.

The car itself weighs 10 tons the control of the car itself weighs 10 tons the car cost the Boyles company to the control of the car itself weighs 10 tons the car cost the Boyles company to the control of the car cost the Boyles company to the control of the car cost the Boyles company to the control of the car cost the Boyles company to the car cost the Boyles company to the control of the car cost the Boyles company to the car cost t

to power the whole thing.

That electric motor runs on the way the designer talked this would be an easy thing to do. The bard part is over.

So, today, the Boyles company has a new piece of equipment they can use to save time and money. When they started into the mountain just northeast of the Strawberry Reservoir, they didn't have any such thing They will inish the last mile of the tunnel on schedule, this November about a year from the time they started

the time they started. But the last mile is But the last mile is going to go a little faster, as will all the other miles the company will dril! in the future. And they owe it all to having seen and studied the Provo City green monster as it wheeled around town, wheeling and whistling town, wheezing and whistling going about its own mundant

job



PROVO, UTAH,

y Noon Marines et Alarm

County.

unities are reminded of the ders drove them off, military spokesmen said today.

Givil director, said the ex
U.S. troops killed 76 Communist three purposes: to test the liarize residents of the area, and to ascertain any porh the attack warning signal artillery.

pringville ctivities Morning

SPRINGVILLE . Dr. Curtis Val Alfen, assistant dean of the College of Education at BYU, will be the guest speaker Tuesday at the third annual business-education breakfast sored by the Springville Cham-

ber of Commerce. Invitations have been extended all teachers in the Springville and Mapleton schools to

Drive VC From Base

SAIGON (UPI) - Attacking Viet Cong commandos cut through the barbed wire around he sirens at all fire depart-mmunities will be sounded vil Defense attack warning the Communist flag inside the American camp before defen-

> U.S. troops killed 76 Communist troops in a seven-hour battle involving helicopters, jets and

American infantrymen Sunf three to five minutes of day pushed the last 1,000 yards irens. The exercise will not to the wreckage of a crashed to the wreckage of a crashed on the part of the general U.S. helicopter and found the bodies of eight Americans, including Associated Press Photographer Oliver Noonan, 29, of Norwell, Mass.

The American troops had fought for six days to reach the helicopter, shot down Monday.

It was the second Viet Cong attack on the Marine base at the outskirts of Da Nang in seven months. As the 10-man commando squad cut barbed wire and charged, tossing explosive charges in bags, the Marines called in U.S. fighter bombers from Da Nang

airbase. The Viet Cong managed to plant their own flag beside a U.S. bunker before they were driven out of the enclosure by gunfire. One Marine was killed and three wounded in the 90 minutes of fighting. Five Viet Cong were killed and two

captured. Communist troops ambushed a U.S. 4th Infantry Division Highway 19 near An Khe 260 miles northeast of Saigon. The Communist force of 20 men fired small arms and rocketpropelled grenades and the Americans fought back with heavy machine guns mounted on armored personnel carriers and called in artillery strikes.

Two Americans were killed and four wounded. The Commukilled nist losses were undetermined.



TAKE A BREAK FROM the at the Ohio State Fair in Col Holler and her pup, seems to cone. Since the Ohio State Fai perfect and crowds are at rece

Rock Analysis Indica

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